

FIG. 1

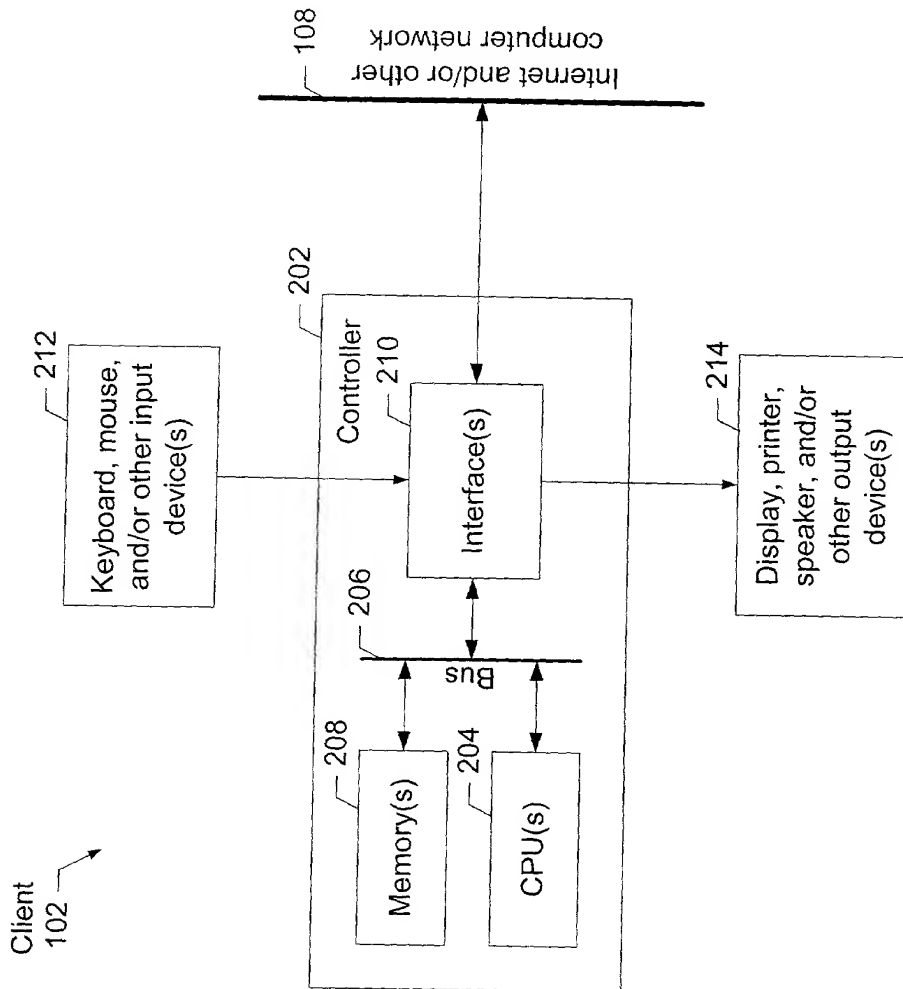


FIG. 2

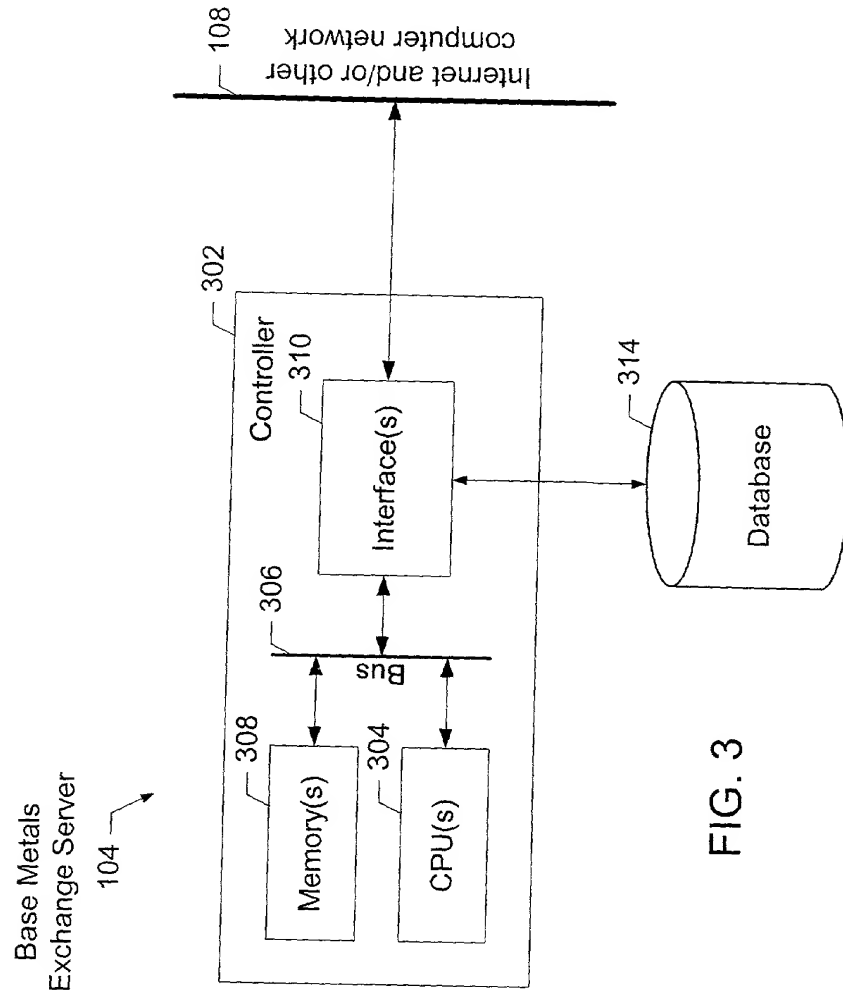


FIG. 3

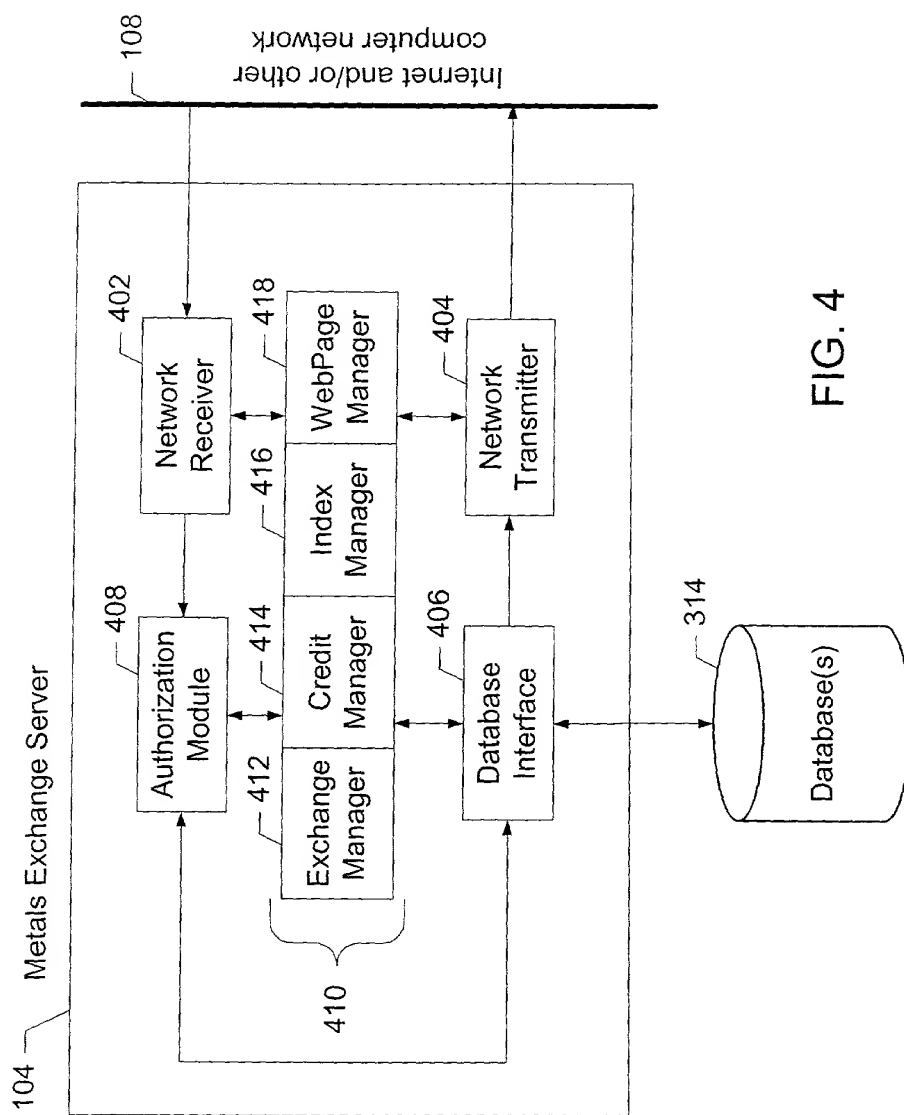
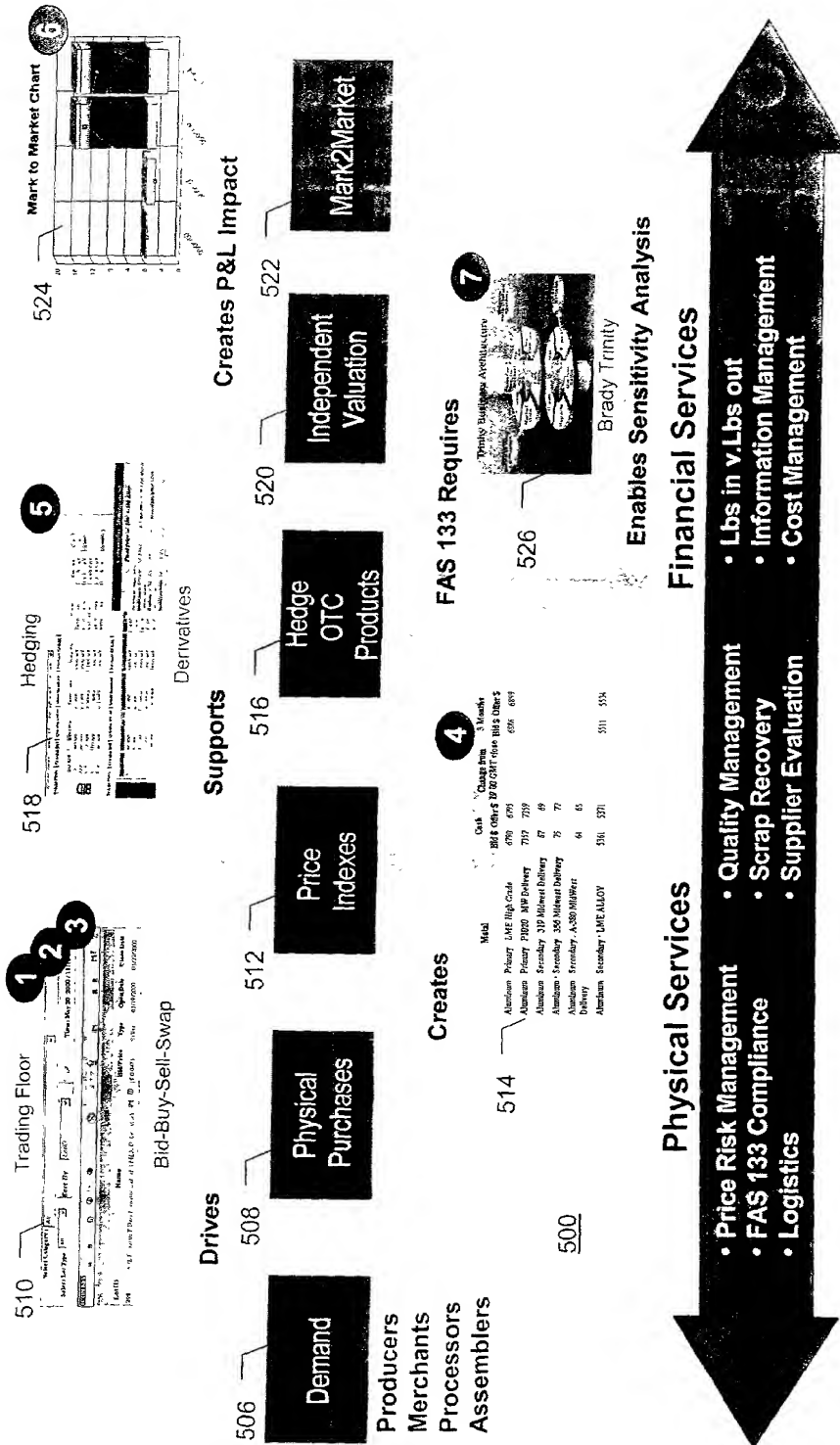


FIG. 4



Physical Management Solution

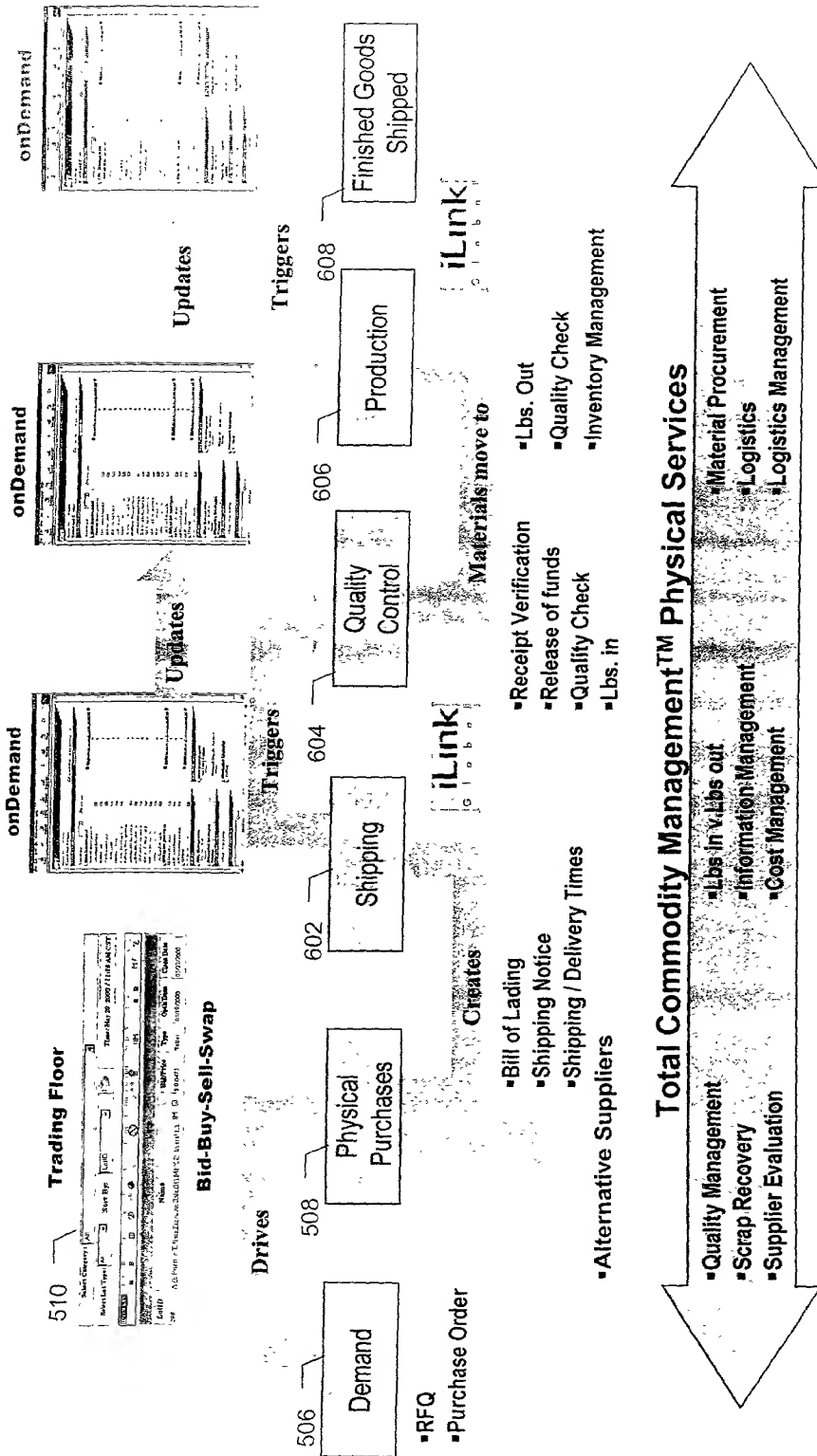


FIG. 6

702



FIG. 7

Logistics (lot detail)

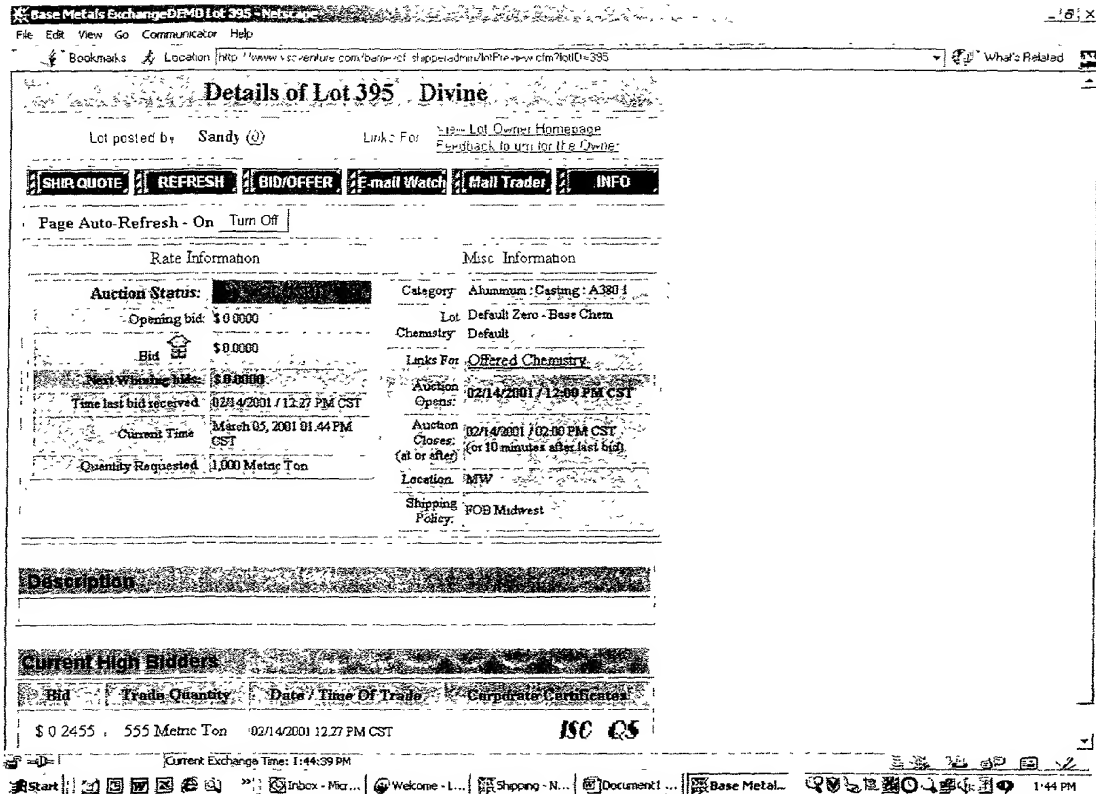


FIG. 8

Logistics (request quote)

Shipping - Netscape

File Edit View Go Communicator Help

Back Reload Home Search Netscape Print Security Shop

Bookmarks Location <http://www.vssventure.com/demo/BMEexchange/Services/IT-Logistics/Shipping/Shipping.html> What's Related

iLink Arrange Shipping

Select a link Shipping

Request Shipment Quote (Full Truck Load)

Source Country (2-digit code)

Source Zipcode

Destination Country (2-digit code)

Destination Zipcode 902

Weight (max 44000 lbs) * lbs

Truck Type 904

Insurance Value * \$

906

Document: Done

Start | Inbox - Micr... | Welcome - L... | Shipping - ... | Document1 ...

1:45 PM

FIG. 9

Logistics (receive quote)

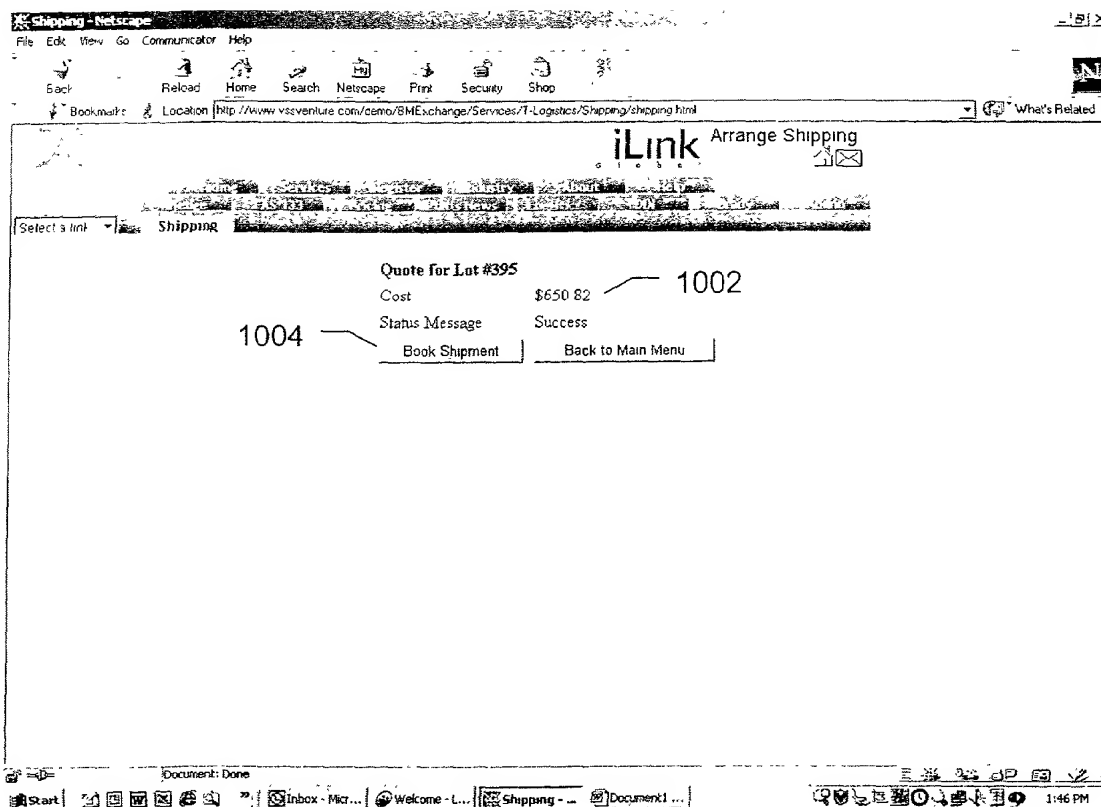


FIG. 10

Logistics (detailed shipping info)

Shipping - Netscape

File Edit View Go Communicator Help

Back Reload Home Search Netscape Print Security Shop

Bookmarks Location <http://www.vcc-futures.com/demo/EMExchange/Services/IT-Logistics/Shipping/shipping.html> What's Related

iLink Arrange Shipping

Select a link Shipping

Shipping Origin Information		Shipping Destination Information	
Company	Vision Strategic Service *	Company	
Contact Name	Sanford Beard *	Contact Name	
Address 1	Two Transam Drive *	Address 1	
Address 2	Suite 210 *	Address 2	
City	Oakbrook Terrace *	City	
State	IL * Zipcode: 60181 *	State	
Country Code	US * (2-letter code)	Country Code	US * (2-letter code)
Contact Phone	* Ext	Contact Phone	* Ext
Contact Fax		Contact Fax	
Contact E-Mail	sbeard@visionsds.com *	Contact E-Mail	

Pickup After	Deliver After
Date (mm/dd/yyyy) / / Calendar	Date (mm/dd/yyyy) / / Calendar
Time AM PM	Time AM PM

Pickup Before	Deliver Before
Date (mm/dd/yyyy) / / Calendar	Date (mm/dd/yyyy) / / Calendar

Document: Done

Start | Inbox - Mic... | Welcome - L... | Shipping - ... | Document1 ...

1:47 PM

FIG. 11A

Logistics (detailed shipping info continued)

Shipping - Netscape

File Edit View Go Communicator Help

Back Reload Home Search Netscape Print Security Shop

Bookmarks Location http://www.vssventure.com/demo/BMEexchange/Services/T_Logistics/Shipping_shipping.html What's Related

iLink Arrange Shipping

Select a link

Shipping

Time AM PM Time AM PM

Pickup Notes (up to 255 characters)

Delivery Notes (up to 255 characters)

Shipment Details:

The maximum weight that can be booked in one truck is 44000 lbs. The total weight of the lot you are shipping is 2204620 lbs. You will need to book 51 truck(s) to ship this amount.

Item Divine

Description *

Internal Item ID

Weight 44000 * lbs (max 44000)

Insurance Value * US \$

Truck Type Flat bed

Item Shape Baled

Submit 1102

Document: Done

Start | Inbox - Mic... | Welcome - L... | Shipping - ... | Document1 ...

1:50 PM

FIG. 11B

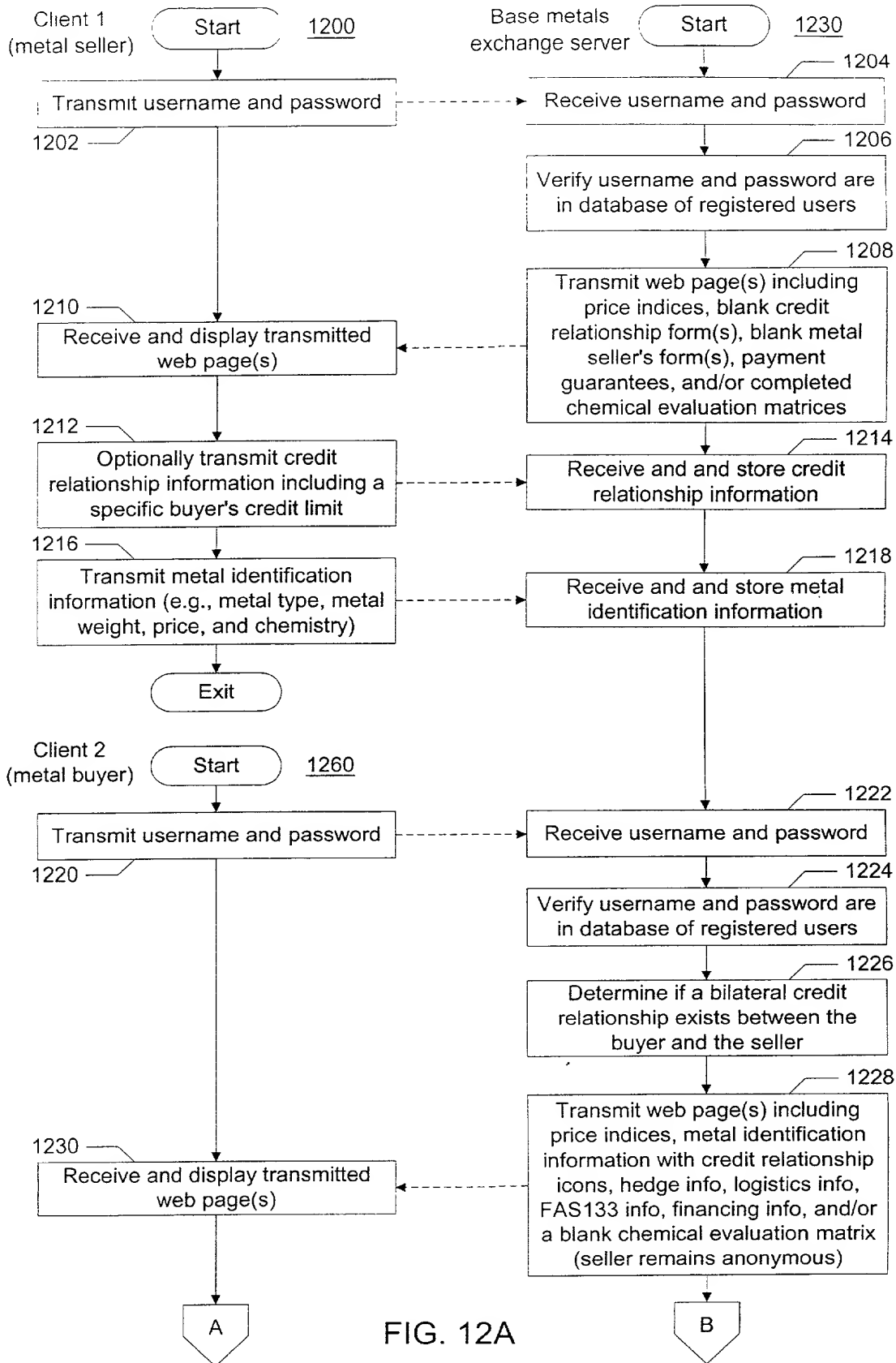


FIG. 12A

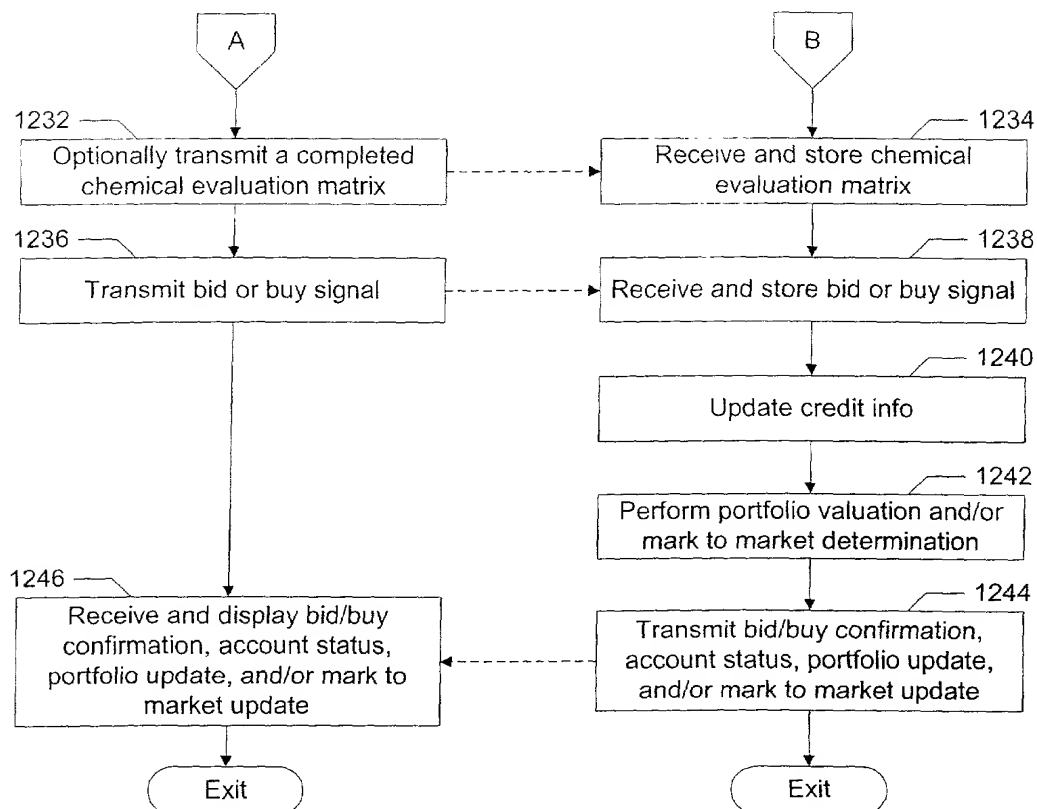


FIG. 12B

Logging into the system

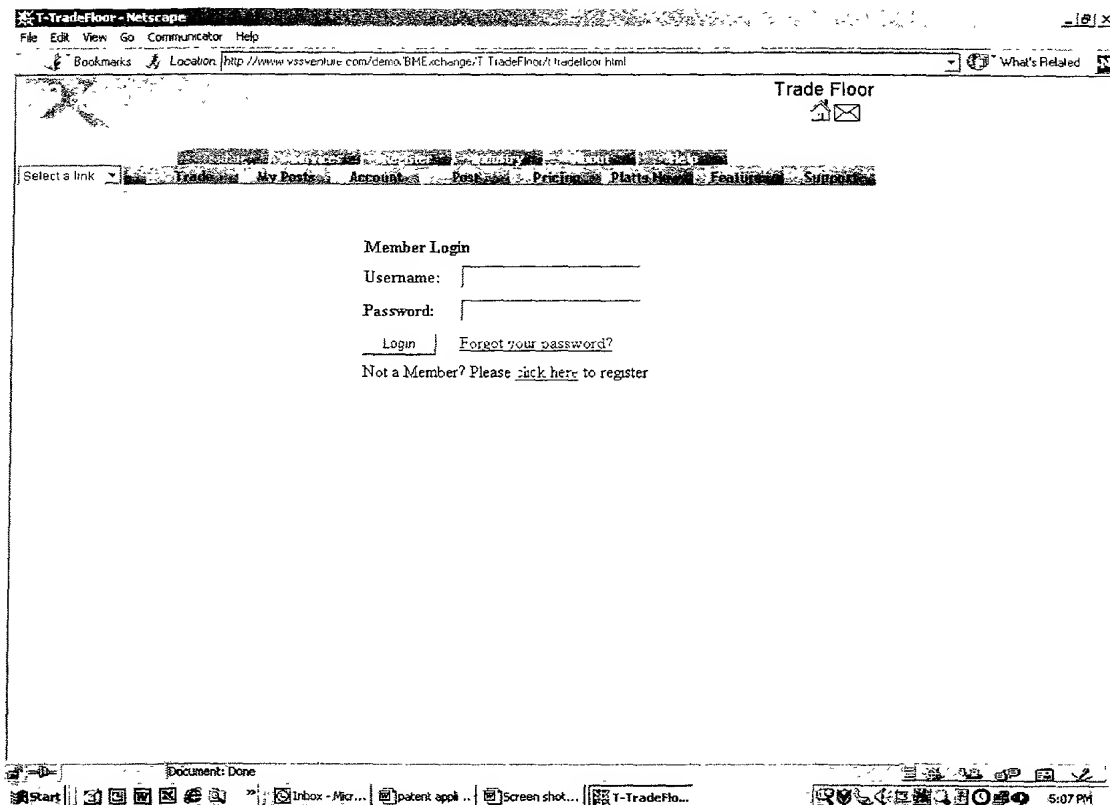


FIG. 13

Main physical trading floor

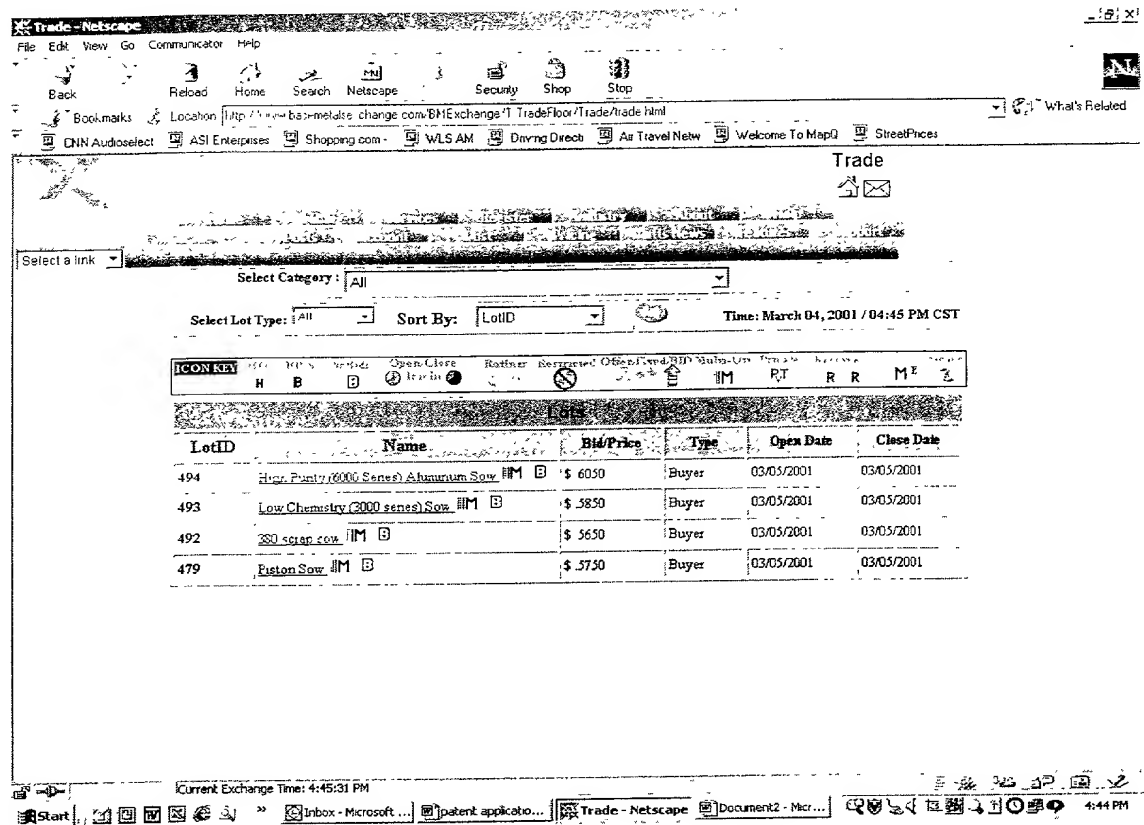


FIG. 14

Hedge trading floor

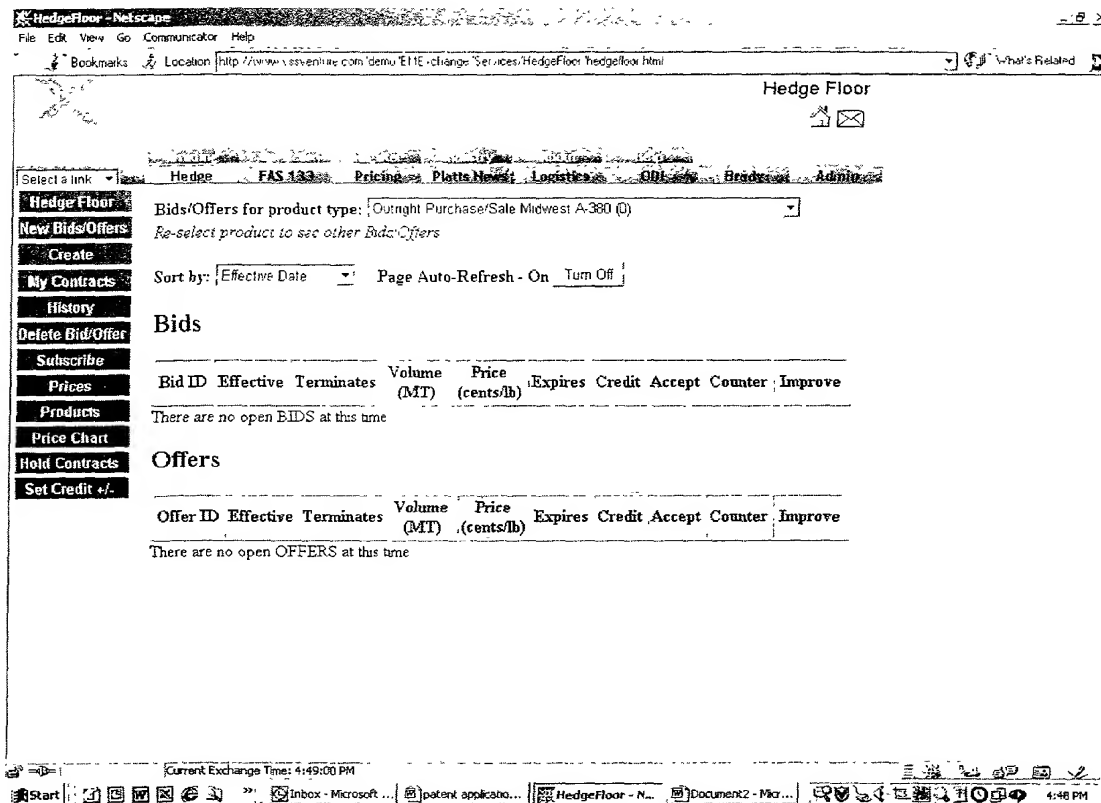


FIG. 15

Price index information

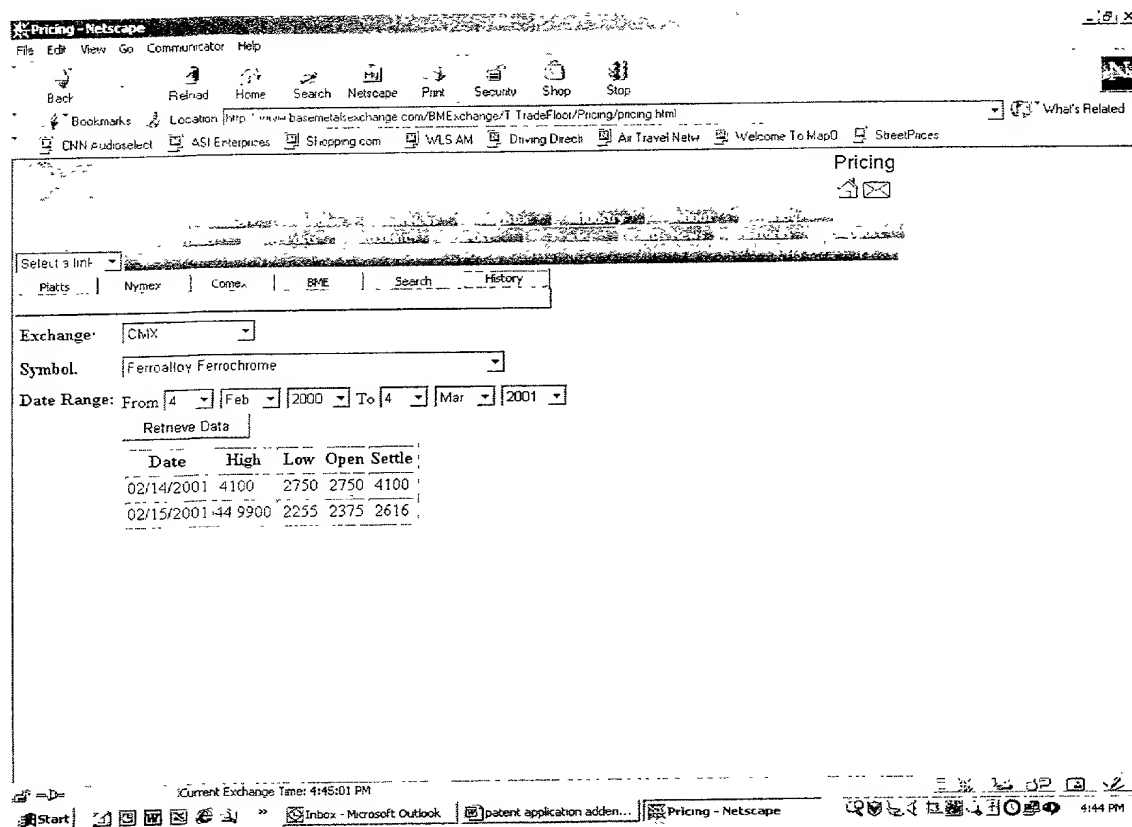


FIG. 16

Credit relationship form

Rate Credit - Netscape

File Edit View Go Communicator Help

Reload Home Search Netscape Print Security Shop

Hedge Credit Approval/Refusal

[New (Unrated) Corporations] [Refused Credit] [Accepted Credit]

New (Unrated) Corporations

Company	Rating
AIG International INC	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit
Cargill Investor Services Limited	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit
Enron Metals & Commodity Limited	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit
General Motors	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit
Hydro Aluminum Louisville, Inc	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit
Koch	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit
MELANIE	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit
Mitsui Bussan Commodities	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit
refco	<input type="radio"/> Accept Credit <input type="radio"/> Refuse Credit

Corporations Refused Credit

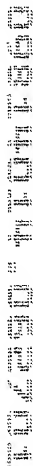
Company	Rating
Friesman	<input type="radio"/> Accept Credit <input checked="" type="radio"/> Refuse Credit
Mitsui & Co, USA, Inc	<input type="radio"/> Accept Credit <input checked="" type="radio"/> Refuse Credit

Corporations With Accepted Credit

Company	Rating
---------	--------

Start [Icons] [Inbox - Micr...] [patent app...] [Hedge Trad...] [HedgeFloor] [Rate Credit...] 5:01 PM

FIG. 17



Posting a lot for physical metal procurement

T-Create - Netscape _id X'

File Edit View Go Communicator Help

Create
🏠 ✉

Select a link ▾ **Build Seller Auction**

[Return to your Homepage](#)

You may create your seller item below. To create an item, you must have a valid username and password.

<p>User Name: <input type="text" value="sandy"/></p> <p>Password: <input type="password"/></p> <p><input type="checkbox"/> Email lot information to me</p> <p>Lot Name: <input type="text"/></p> <p>Auction Open date/time: <input type="text" value="3 / 4 / 2001"/> <input type="text" value="05"/> <input type="text" value="00"/> <input type="text" value="PM"/> Pick Opening Date</p> <p>Auction Close date/time: <input type="text" value="3 / 4 / 2001"/> <input type="text" value="06"/> <input type="text" value="00"/> <input type="text" value="PM"/> Pick Closing Date</p> <p>Close: <input type="radio"/> Time Basic <input checked="" type="radio"/> Time + Inactivity</p> <p>Close Inactivity: <input type="text" value="10"/> (in whole minutes)</p> <p>Opening bid: <input type="text" value=".0000"/></p> <p>Bid: <input type="text" value=".0000"/></p>	<p>Quantity: <input type="text" value="1"/></p> <p>Unit Of Measure: <input type="text" value="Metric Ton"/></p> <p>Category: <input type="text" value="-- Select Category --"/></p> <p>Location: <input type="text" value="SE"/></p> <p>Ship From: <input type="text"/></p> <p>Zipcode: <input type="text"/></p> <p>Shipping Policy: <input type="text" value="FOB Midwest"/></p> <p>Currency: <input type="text" value="\$- US Dollars"/></p>
---	--

Current Exchange Time: 4:47:41 PM

Start | 🏠 📁 📧 📄 📂 📅 📆 📇 📈 📉 📊 📋 📌 📍 📎 📏 📐 📑 📒 📓 📔 📕 📖 📗 📘 📙 📚 📛 📜 📝 📞 📟 📠 📡 📢 📣 📤 📥 📦 📧 📨 📩 📪 📫 📬 📭 📮 📯 📰 📱 📲 📳 📴 📵 📶 📷 📸 📹 📺 📻 📼 📽 📾 📿 📠 📡 📢 📣 📤 📥 📦 📧 📨 📩 📪 📫 📬 📭 📮 📯 📰 📱 📲 📳 📴 📵 📶 📷 📸 📹 📺 📻 📼 📽 📾 📿



Inbox - Microsoft ... T-Create - Nets... Document2 - Mic... 4:46 PM

FIG. 19

Posting a lot for physical metal procurement

T-Create - Netscape - 6 x

File Edit View Go Communicator Help

Create  

Select a link Inactivity (in whole minutes)

Opening bid .0000

Bid Increment .0000

Reserve Rate .0000 (0=none, Only if lot country=1)

Swap Lot If you want to accept another trader LOT as Payment select YES
If you select YES, then this SWAP lot will be active until it opens for Auction

Swap ☐ Yes ☒ No

Swap Value 0.00

Summary

Description

Build Item ☐ CHECK if for DRAFT ONLY

Current Exchange Time: 4:46:07 PM

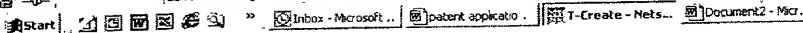
Start  4:47 PM

FIG. 20

Chemistry matrix to indicate the composition of the material being posted

T-Create - Netscape File Edit View Go Communicator Help

Location: <http://www.venture.com/demo/BME-change/T-Trade/Intr-T-Create.html> What's Related

Create

Select a link

Metal: SI SI High (default 0.0) SI Low (default 0.0) SI Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>			Metal: FE FE High (default 0.0) FE Low (default 0.0) FE Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>		
Metal: CU CU High (default 0.0) CU Low (default 0.0) CU Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>			Metal: MN MN High (default 0.0) MN Low (default 0.0) MN Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>		
Metal: MG MG High (default 0.0) MG Low (default 0.0) MG Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>			Metal: CR CR High (default 0.0) CR Low (default 0.0) CR Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>		
Metal: NI NI High (default 0.0) NI Low (default 0.0) NI Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>			Metal: ZN ZN High (default 0.0) ZN Low (default 0.0) ZN Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>		
Metal: SN SN High (default 0.0) SN Low (default 0.0) SN Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>			Metal: TI TI High (default 0.0) TI Low (default 0.0) TI Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>		
Metal: PB PB High (default 0.0) PB Low (default 0.0) PB Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>			Metal: Other Other Total (default 0.0) Other Each (default 0.0) Other Avg (default 0.0) <input type="text" value="0.0"/> <input type="text" value="0.0"/> <input type="text" value="0.0"/>		

Current Exchange Time: 5:12:48 PM

Start [Icons] [Inbox - Micr...] [patent appt...] [Screen shot...] [T-Create - ...] 5:12 PM

FIG. 21

T-My Lots - Netscape

File Edit View Go Communicator Help

Bookmarks

Location http://www.vc-venture.com/demo/EME_change/T-Trad-Floor/T-My_Lots/1-my_lots.html

What's Related

My Postings

Select a link

Chemistry Value Matrix(CVM) (Premium/Discount - Cents Per/Lb)

If the Lot unit of measure(UOM) differs from LBS the CVM will automatically convert LBS to correct UOM.

Add New Matrix

divine [Edit Name]

AL	CR	CU	FE	MG	MN	NI	PB	SI	SN	TI	ZN
[Add]	[Add]	[Add]	[Add]	[Add]	[Add]	[Add]	[Add]	[Add]	[Add]	[Add]	[Add]
2500 - 3500										0400 - 0600	
- 2500 [Edit]										..3000 [Edit]	

Start

Inbox - Mic...

patent appli...

Screen shot

T-My Lots ...

Current Exchange Time: 5:10:09 PM

5:09 PM

FIG. 22

Posted contracts with credit relationship icons

The screenshot displays the HedgeFloor web application interface. At the top, there is a navigation bar with links: Hedge, FAS 133, Pricing, Platts News, Logistics, Oils, Brokers, and Admin. Below this, a sidebar on the left contains a 'Select a link' dropdown and a list of buttons: Hedge Floor, New Bids/Offers, Create, My Contracts, History, Delete Bid/Offer, Subscribe, Prices, Products, Price Chart, Hold Contracts, and Set Credit +/-.

The main content area is titled 'Hedge Floor' and shows 'Bids/Offers for product type: Outright Purchase/Sale Midwest A-380 (4)'. It includes a 'Sort by: Effective Date' dropdown and a 'Page Auto Refresh: On Turn Off' toggle. The 'Bids' section contains a table with columns: Bid ID, Effective, Terminates, Volume (MT), Price (cents/lb), Expires, Credit, Accept, Counter, and Improve. Two bids are listed: Bid 421 and Bid 420. Bid 421 has a '+' icon in the Credit column, and Bid 420 has a '+' icon in the Credit column. The 'Offers' section contains a table with columns: Offer ID, Effective, Terminates, Volume (MT), Price (cents/lb), Expires, Credit, Accept, Counter, and Improve. Two offers are listed: Offer 422 and Offer 423. Offer 422 has a '+' icon in the Credit column, and Offer 423 has an 'X' icon in the Credit column. Arrows labeled '2302' point to the '+' and 'X' icons in the Credit column of the Offers table.

At the bottom of the interface, there is a status bar showing 'Current Exchange Time: 4:59:16 PM' and a taskbar with icons for Start, Internet Explorer, Outlook, and other applications.

FIG. 23

Metal identification information for a posted metal lot

Trade - Netscape
File Edit View Go Communicator Help

Trade

Select a link

Details of Lot 494 High Purity (6000 Series) Aluminum Sow

Lot posted by [paperpusher \(U\)](#) Links For [View Lot Owner Homepage](#)
[Feedback forum for the Owner](#)

[SHIP QUOTE](#) [REFRESH](#) [VALUE QUOTE](#) [E-mail Watch](#) [Mail Trader](#) [INFO](#)

Page Auto-Refresh - On ☐ Turn Off

Rate Information		Misc Information	
Procurement Status:	PREVIEW	Category:	Aluminum - Scrap - High Purity - 6000 Series Sows
Opening bid:	\$ 8030	Lot Chemistry:	Default Zero - Base Chem
Order:	\$ 0000	Links For:	Requested Chemistry
Next Winning bids:	\$ 6050	Procurement Opens:	03/05/2001 / 10:30 AM CST
Time last bid received:	(No current bids)	Procurement Closes:	03/05/2001 / 11:00 AM CST (or 10 minutes after last bid)
Current Time:	March 04, 2001 04:46 PM CST	Time until open:	0 Days + 17 hours + 43 minutes
Quantity Requested:	294,000 Pounds-Lbs	Location:	MW
		Shipping Policy:	FOB Midwest

Description

Current Exchange Time: 4:46:14 PM

Start [Inbox - Microsoft ...](#) [Internet applicatio...](#) [Trade - Netscape](#) [Document2 - Micr...](#) 4:45 PM

FIG. 24

Posting a bid (option: directly to floor or through a market specialist)

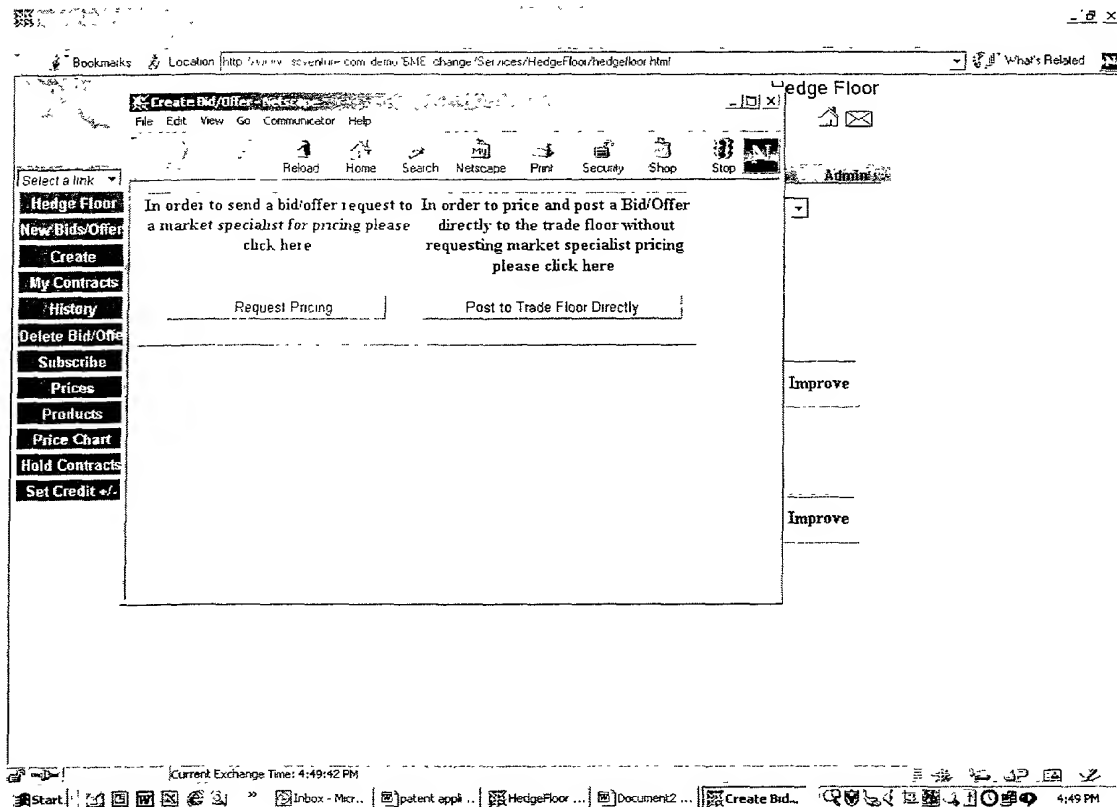


FIG. 25

Posting a bid (metal type and quantity)

The screenshot shows a Netscape browser window with the title "Create Bid/Offer - Netscape". The address bar shows "http://www.metalprice.com/". The main content area displays a form titled "Post Bid/Offer".

Form Fields:

- Product Type:** A dropdown menu showing "Outright Purchase/Sale Midwest A-380".
- Posting Type:** Radio buttons for "Bid" (selected) and "Offer".
- Hedge Effective Date:** A date selector showing "4 Mar 2001".
- Hedge Termination Date:** A date selector showing "5 Mar 2001".
- OR:** A checkbox labeled "Check here for monthly contract (from the first to the last business day of the month)".
- Volume:** A text input field containing "10000".
- Post Directly to Trading Floor:** A checkbox.

Navigation and Status:

- Navigation:** Buttons for "Back", "Reload", "Home", "Search", "Netscape", "First", "Security", "Shop", and "Stop".
- Status Bar:** Shows "Page 6", "Sec 1", "6/6", "At 1", "Ln 1", "Col 2".
- Taskbar:** Shows several open windows: "Start", "Inbox - Mic...", "patent appl...", "HedgeFloor...", "Document2...", and "Create Bid...". The system clock shows "4:50 PM".

FIG. 26

Posting a bid (price)

Figure 27 is a screenshot of a web browser window displaying a "Hedge Floor" interface for posting a bid. The browser's address bar shows the URL: <http://www.zeventure.com/demo/EMExchange/Services/HedgeFloor/hedgefloor.html>. The page title is "Hedge Floor".

The interface includes a left-hand navigation menu with the following links: "Hedge Floor", "New Bids/Offers", "Create", "My Contracts", "History", "Delete Bid/Offers", "Subscribe", "Prices", "Products", "Price Chart", "Hold Contracts", and "Set Credit".

The main content area is titled "Post bid request to trading floor". It contains the following fields and controls:

- Product:** Outright Purchase/Sale Midwest A-380
- Effective Date:** 1 Mar 2002
- Termination Date:** 29 Mar 2002
- Price (cents/lb):** 65
- Volume (MT):** 10000
- Opening Date:** 4 Mar 2001, **Time (hh:mm):** 5:52 PM
- Closing Date:** 4 Mar 2001, **Time (hh:mm):** 5:07 PM

At the bottom of the form are two buttons: "Cancel" and "Post to Trading Floor".

The browser's status bar at the bottom indicates the "Current Exchange Time: 4:52:53 PM". The taskbar shows several open applications, including "Inbox - M...", "patent appl...", "HedgeFloor ...", "Document2 ...", and "Create Bid...". The system clock shows "4:52 PM".

FIG. 27

Posting a bid (confirmation)

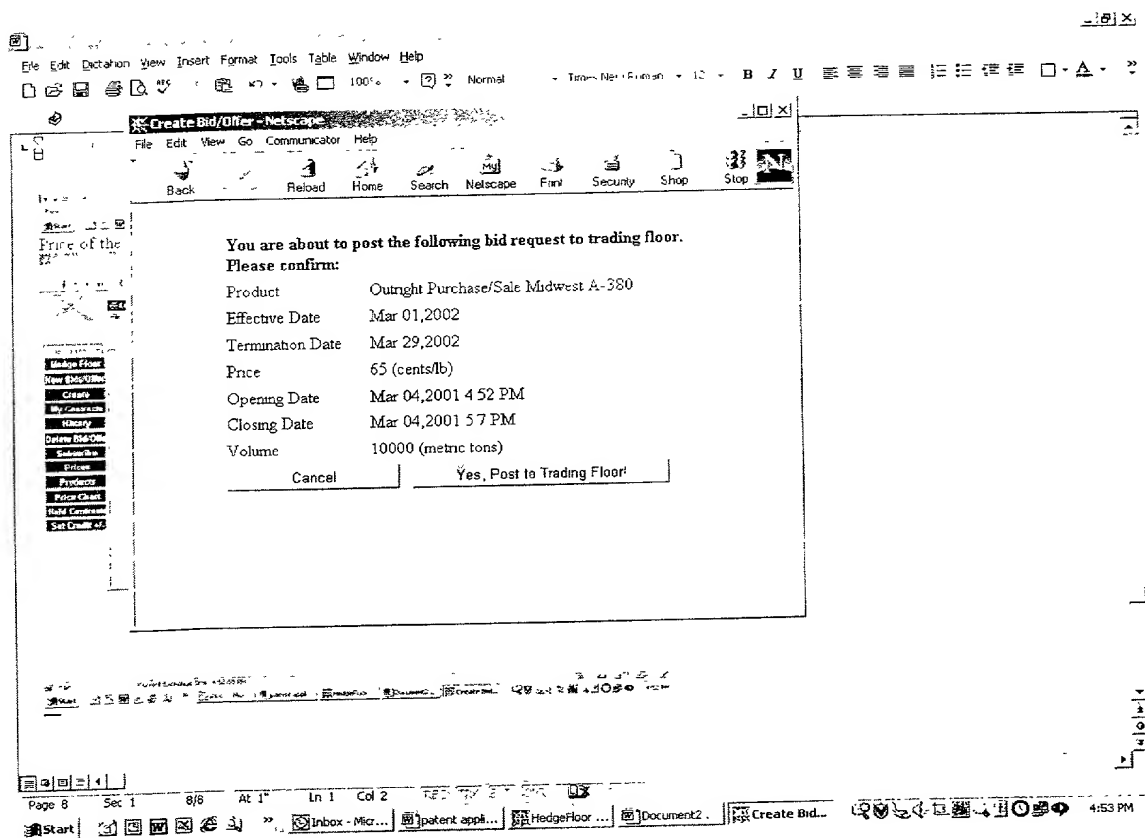


FIG. 28

Posting a bid (displayed on trading floor)

Hedge Floor

Bids/Offer for product type: Outright Purchase/Sale Midwest A-360 (1)
 Re-select product to see other Bids/Offer

Sort by: Effective Date Page Auto-Refresh - On Turn Off

Bids

Bid ID	Effective	Terminates	Volume (MT)	Price (cents/lb)	Expires	Credit	Accept	Counter	Improve
420	Mar 01, 2002	Mar 29, 2002	10000.0	65.0000	Mar 04, 2001 05:07 PM	X	Delete	N/A	Improve

Offers

Offer ID	Effective	Terminates	Volume (MT)	Price (cents/lb)	Expires	Credit	Accept	Counter	Improve
There are no open OFFERS at this time									

Current Exchange Time: 4:54:05 PM

Start | Inbox - Micro... | patent app... | HedgeFloor... | Document2 ... | 4:53 PM

FIG. 29

Accepting a bid

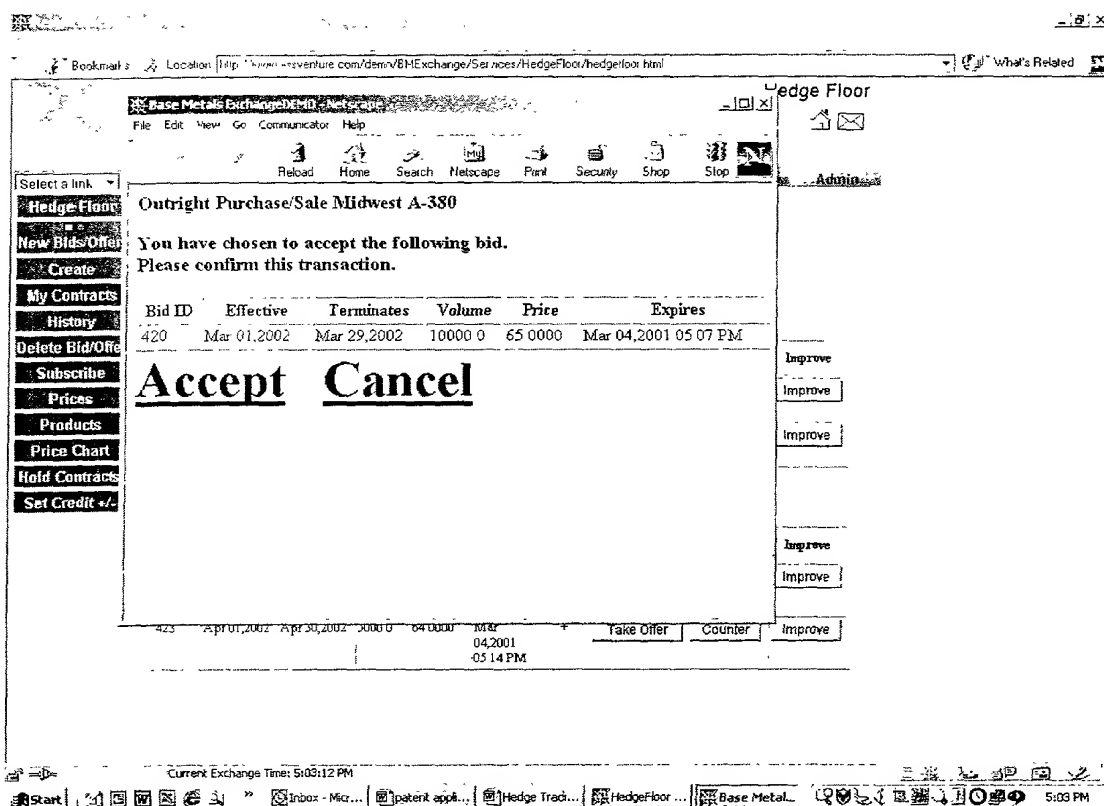


FIG. 30

Brady Trinity spot prices

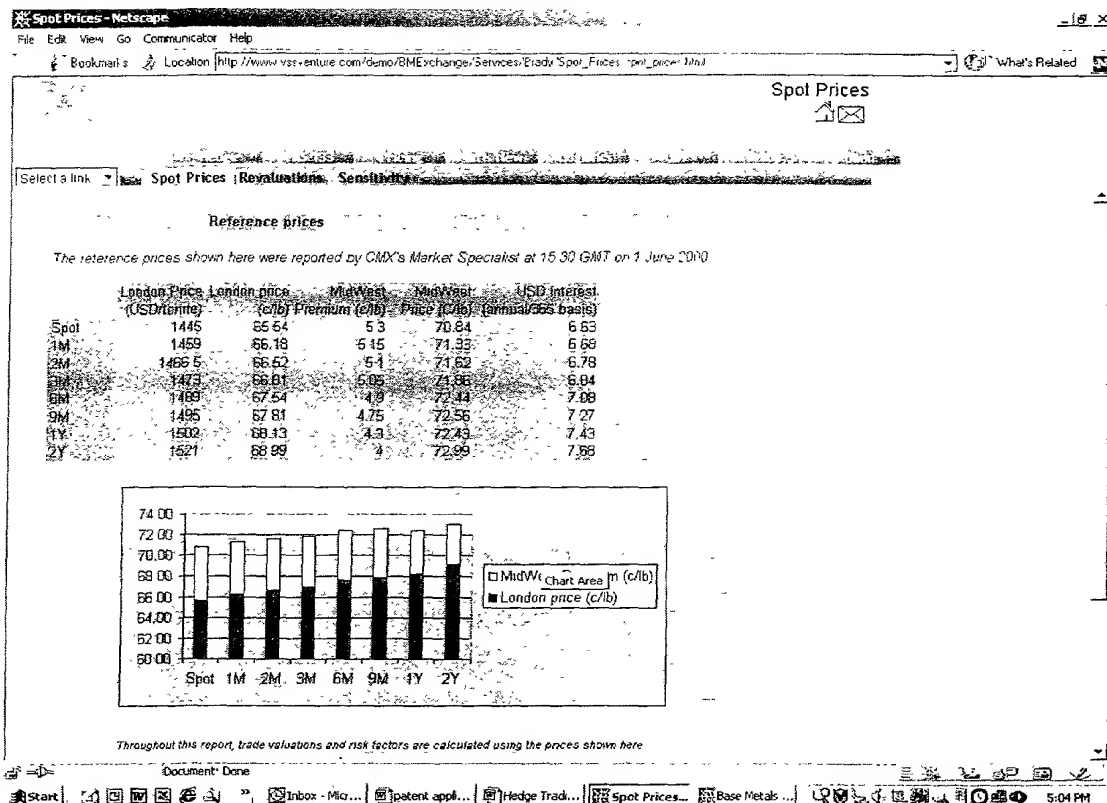


FIG. 31

Brady Trinity revaluations

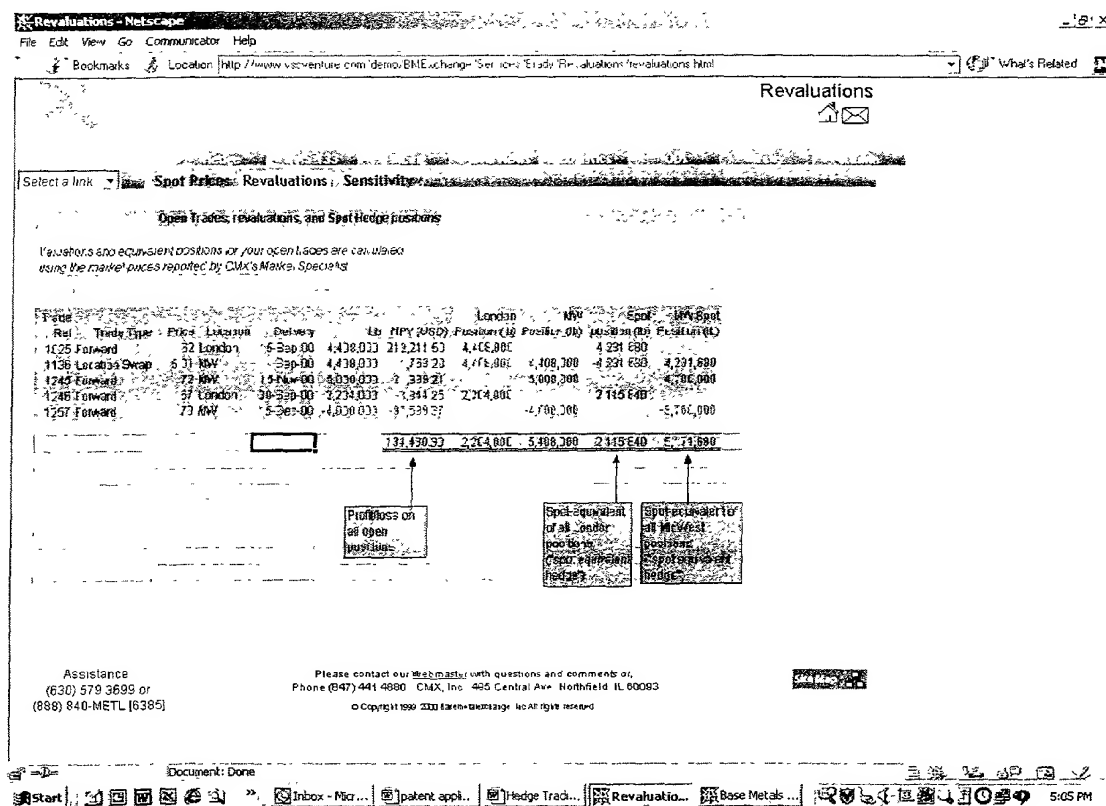


FIG. 32

Mark to market (intro page)

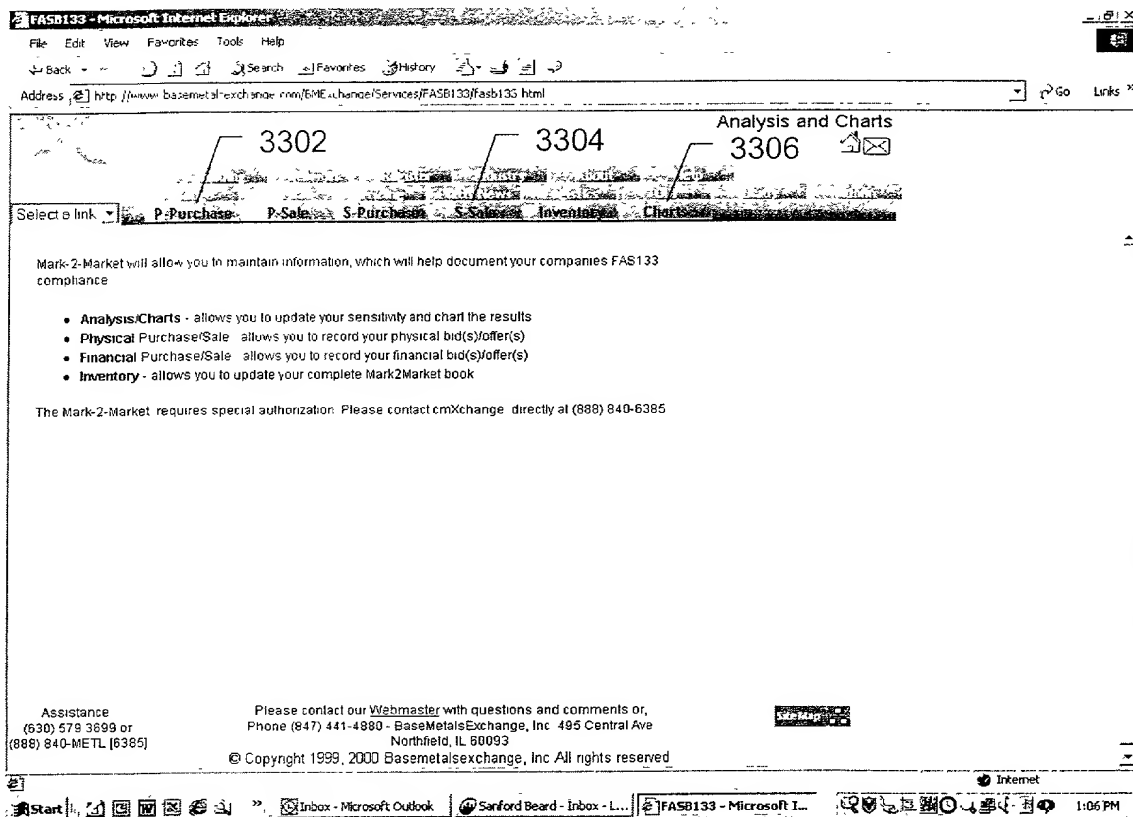


FIG. 33

Physical Purchase - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History Print

Address http://www.basemetalsexchange.com/BMExchange/Services/FA5B133/Physical_Purchase/physical_purchase.html

Physical Purchase 3302 3304 3306

Select a link: P. Sale S. Purchase S. Sale Inventory Chart

P. Purchase Enter Records Edit Records

Physical Purchase Position Entry

Book Reference

Item Reference

Position Date 3/01/01

Grade Aluminum Casting 319.1

Counter Party

Physical Volume 0

Price / lb 0

Premium 0

Submit

3402 3404 3406 3408

http://www.basemetalsexchange.com/BMExchange/Services/FA5B133/Physical_Purchase/physical_purchase.html

Physical Purchase... 1:08 PM

FIG. 34

Mark to market (list of physical purchases)

Physical Purchase - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://www.basemetalsexchange.com/EME/rhano-13.../FA55133/Physical_Purchase/physical_purchase.html

Physical Purchase 3306

Select a link: P-Purchase P-Sale S-Purchase S-Sale Inventories Chart

Enter Records Edit Records

Physical Purchase Edit Form

Book Reference	Item Ref.	Pos Date	Grade	Counter Party	Physical Volume	Price / LB	Premium	Delete
C3	1003	06/01/01	Aluminum Casting 319 1	C3	2500000 0	5950	0000	
C2	1002	05/01/01	Aluminum Casting 319 1	C2	2000000 0	5975	0000	
C1	1001	04/01/01	Aluminum Casting 319 1	C1	1000000 0	6000	0000	

Update

Done Internet

Start Inboxes - Microsoft Sanford Beard - I... Physical Purcha... Document1 - Micr...

1:09 PM

FIG. 35

Mark to market (list of financial transactions)

Financial Sale - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History

Address http://www.basemetalsexchange.com/BMEexchange/Service/IFAS6133/Financial_Sale/financial_sale.html Go Links

Financial Sale

3302 3304 3306

Select a link: P-Purchases P-Sales S-Purchases S-Sale Inventory Charts

Enter Records Edit Records

Financial Sale Edit Form

Book Reference	Item Ref.	Pur Date	Grade	Counter Party	Financial Volume	Price / LB	Premium	Delete
G1	9003	06/01/01	Aluminum Casting 319 1	G1	400000	5900	0000	<input type="checkbox"/>
H2	9002	05/01/01	Aluminum Casting 319 1	G1	2500000	5900	0000	<input type="checkbox"/>
H1	9001	04/01/01	Aluminum Casting 319 1	G1	1250000	6000	0000	<input type="checkbox"/>

Update

Done Internet

Start Inboxes - Microsof... Sanford Beard - ... Financial Sale ... Document1 - Mc...

1:17 PM

FIG. 36

Mark to market (price sensitivity entry)

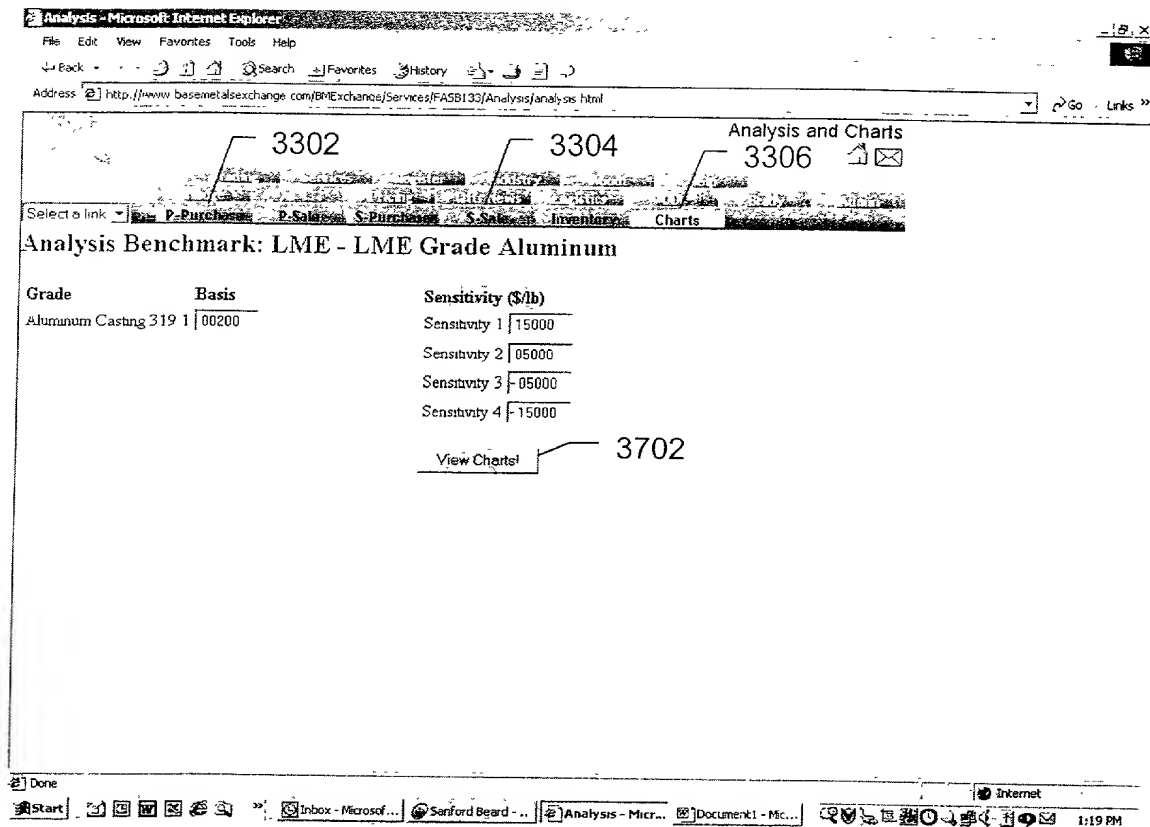


FIG. 37

Mark to market (sensitivity analysis)

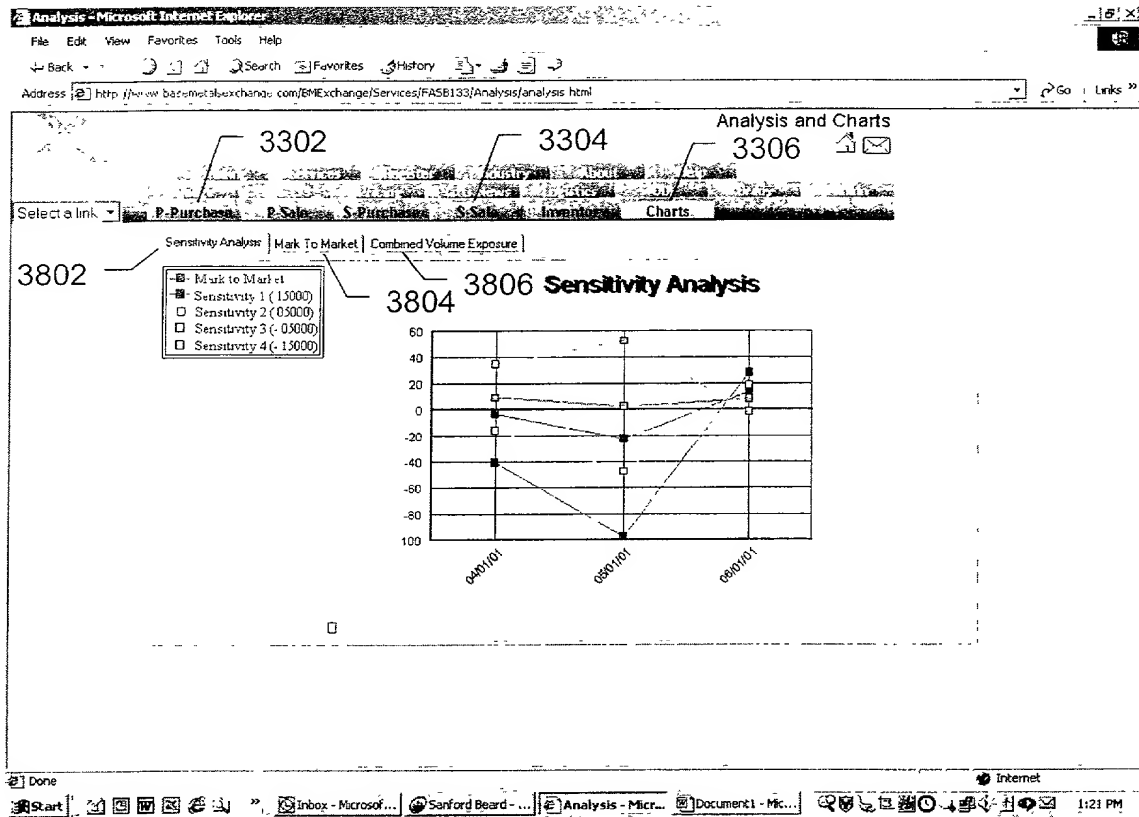


FIG. 38

Mark to market chart

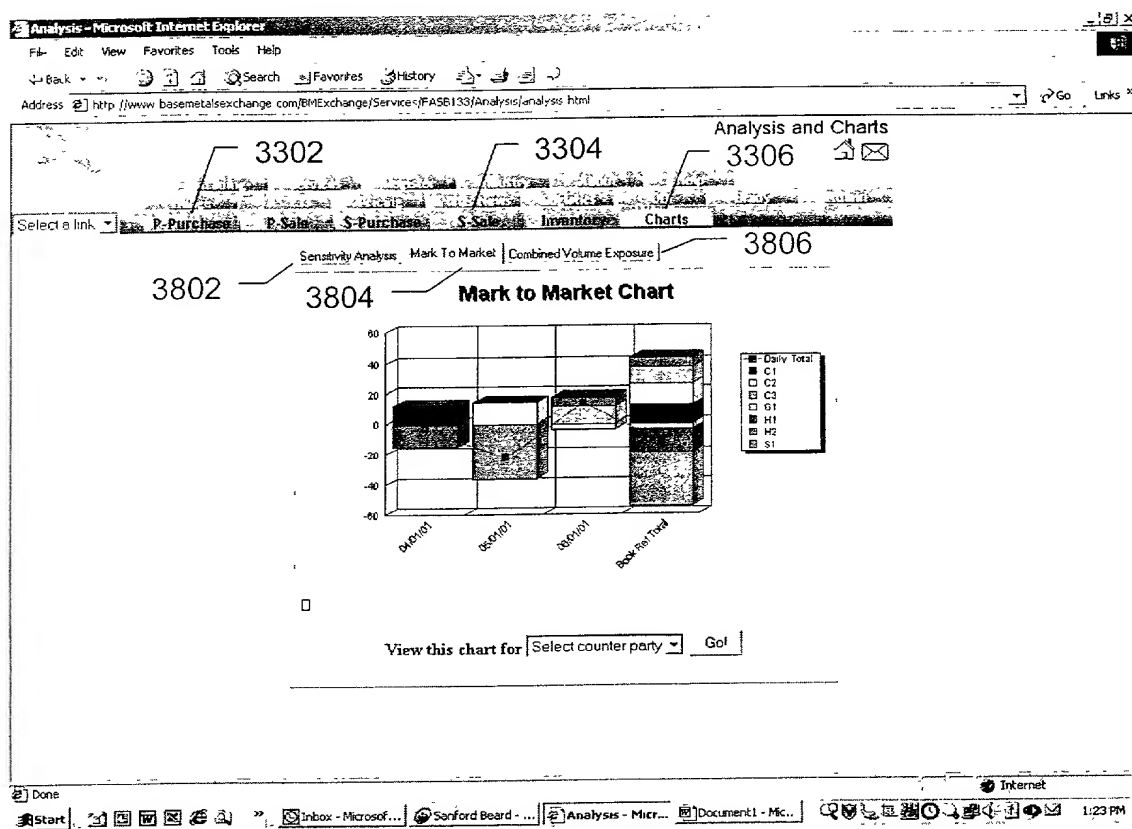


FIG. 39

Combined volume exposure chart

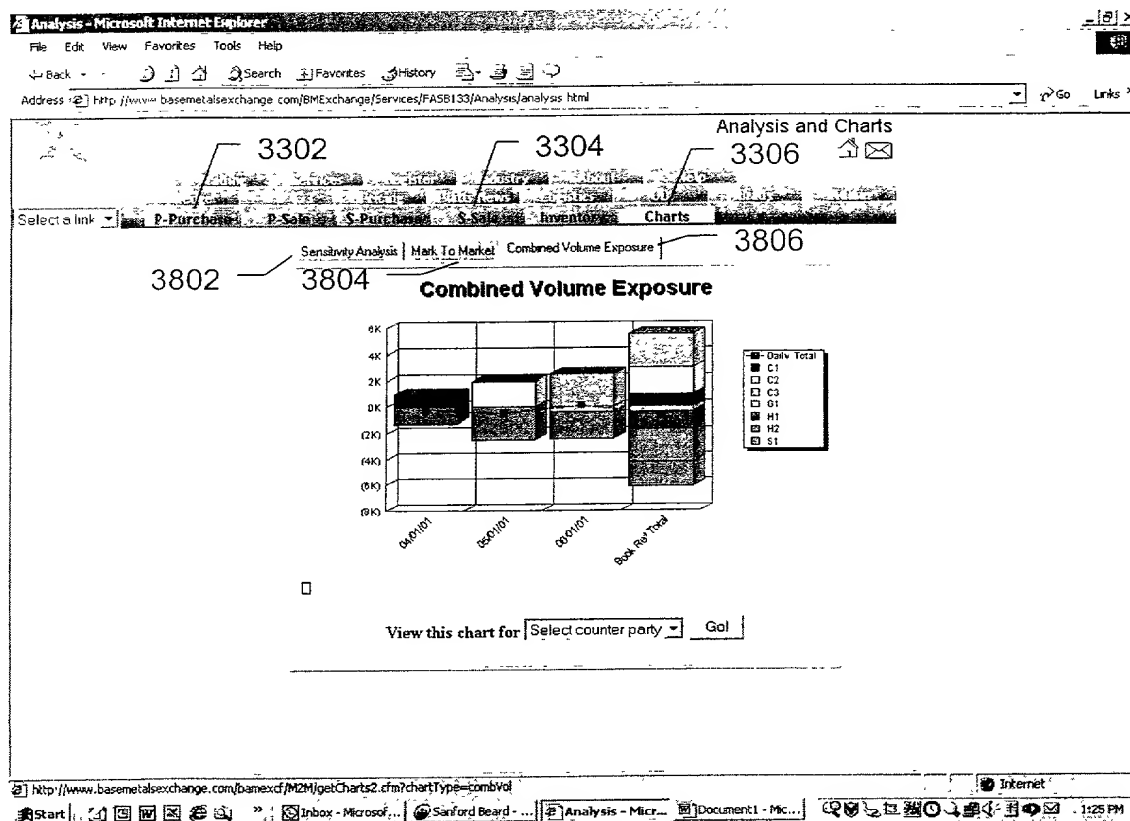


FIG. 40